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(54) ELECTRODE CATALYST AND SOLID POLYMER TYPE FUEL CELL USING SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a superior discharge characteristic and a excellent life characteristic, by finding an optimum condition of pore distribution of fine carbon powder which serves as a carrier of noble metal catalyst and by using fine carbon powder containing little impurities.

SOLUTION: An electrode catalyst comprizing a noble metal high-dispersed on fine carbon powder wherein a volume occupied by pores having a diameter of 8nm or under is 500cm³/g or less is put to use. Constituted is a solid polymer type fuel cell wherein a noble metal catalyst high-dispersed on fine carbon powder containing chlorine and sulfur of 2ppm or under, in particular on fine carbon powder using acetylene as a raw material, is used to, at least, either of a positive electrode and a negative electrode.